

INTERNATIONAL SEARCH REPORT

International application No.

A. CLASSIFICATION OF SUBJECT MATTER

IPC⁷ H04B 1/00, H04B 3/04, H03H 2 1/00, H03H 17/00

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC⁷ H04B H03H

Documentation searched other than minimum documentation to the extent that such documents are included in the fields

Electronic database(s) consulted during the international search (name of database(s) and, where practicable, search terms)

Databases: Canadian Patent Database, Pluspat, Delphion, IEEEExplore

Keywords: adaptive, equalizer, equalization, transmit*, receive*, control, pre-emphasis, linear, non-linear, decision feedback equalizer (DFE), cursor, pre-cursor, feed forward equalizer, serial, error, desired, offset.

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant	Relevant to claim No(s).
X	US 6,212,229 B1 (Salinger) 3 April 2001 (03-04-2001) **Figures 3&4, claim 20**	1-5
Y		21-24
Y	US 5,966,415 (Bliss et al.) 12 October 1999 (12-10-1999) **abstract; col. 4, line 40 - col. 5, line 4**	21-24
L	Web Site containing presentation below last updated on Nov. 29, 2004. http://www.ieee802.org/3/ap/public/nov04/	
X,P	IEEE 802.3ap - Adaptive Tx Equalization (Mike Altmann) November 2004 Plenary Week IEEE P802.3ap Task Force Meeting (November 16-18, 2004, San Antonio TX) http://www.ieee802.org/3/ap/public/nov04/altmann_02_1104.pdf	1, 14, 21, 25
A	CA 2 487 358 (Smee et al.) 11 December 2003 (11-12-2003)	1, 21

☒ Further documents are listed in the continuation of Box C.☒ See patent family annex.

* Special categories of cited documents :	"T" later document published after the international filing date or
"A" document defining the general state of the art which is not considered	priority date and not in conflict with the application but cited
"E" to be of particular relevance	to understand the principle or theory underlying the invention
earlier application or patent but published on or after the international	"X" document of particular relevance; the claimed invention cannot
filing date	be considered novel or cannot be considered to involve an
"L" document which may throw doubt on priority claim(s) or which is	inventive step when the document is taken alone
cited to establish the publication date of another citation or other	document of particular relevance; the claimed invention cannot
special reason (as specified)	be considered to involve an inventive step when the document
"O" document referring to an oral disclosure, use, exhibition or other	is combined with one or more other such documents, such
means	combination being obvious to a person skilled in the art
"P" document published prior to the international filing date but later than	"&" document member of the same patent family
the priority date claimed	

Date of the actual completion of the international search

16 March 2005 (16-03-2005)

Date of mailing of the international search report

01 April 2005 (01-04-2005)

Name and mailing address of the ISA/CA
 Canadian Intellectual Property Office
 Place du Portage I, C114 - 1st Floor, Box PCT
 50 Victoria Street
 Gatineau, Quebec K1A 0G9

Facsimile No: 001(819)953-2476

Authorized officer
 Nicholas Tsagaris (819) 953-0790

INTERNATIONAL SEARCH REPORT

International application No.
PCT/CA2005/000078

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No(s).
A,P	US 2004/0047409 A1 (Lee et al.) 11 March 2004 (11-03-2004) **Figure 2**	
A,P	WO 2004/034078 A2 (Vorenkamp et al.) 22 April 2004 (22-04-2004) **Figure 1**	
A	US 4,995,057 (Chung) 19 February 1991 (19-02-1991) **col. 2, line 57 - col. 3, line 12; claims)	

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.
PCT/CA2005/000078

Patent Document Cited in Search Report	Publication Date	Patent Family Member(s)	Publication Date
US6212229	03-04-2001	AU3122900 A	03-07-2000
		EP1142171 A1	10-10-2001
		NO20012969 A	15-08-2001
		US6212229 B1	03-04-2001
		WO0036768 A1	22-06-2000
US5966415	12-10-1999	US5966415 A	12-10-1999
CA2487358	11-12-2003	CA2487358 A1	11-12-2003
		EP1514390 A1	16-03-2005
		US2003223489 A1	04-12-2003
		WO03103246 A1	11-12-2003
US2004047409	11-03-2004	DE10329661 A1	18-03-2004
		JP2004104781 A	02-04-2004
		US2004047409 A1	11-03-2004
WO2004034078	22-04-2004	US2004071219 A1	15-04-2004
		WO2004034078 A2	22-04-2004
US4995057	19-02-1991	FR2639493 A1	25-05-1990
		GB2225199 A	23-05-1990
		GB2262866 A	30-06-1993
		GB2262867 A	30-06-1993
		GB9304844D D0	28-04-1993
		GB9304845D D0	28-04-1993
		JP2172333 A	03-07-1990
		US4995057 A	19-02-1991